

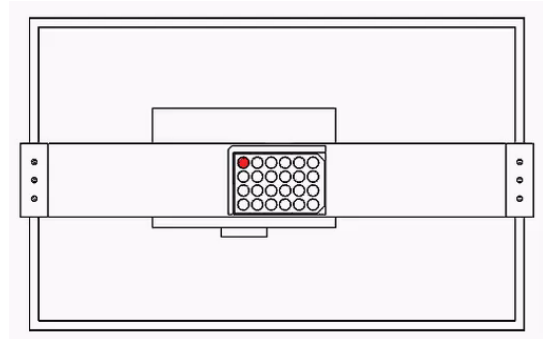
## Ultrasound Exposure Setup

**Goal:** Expose cells to sweep of ultrasound frequencies ~100 kHz range AND to isolate desired mechanical effects from undesired thermal or cavitation effects

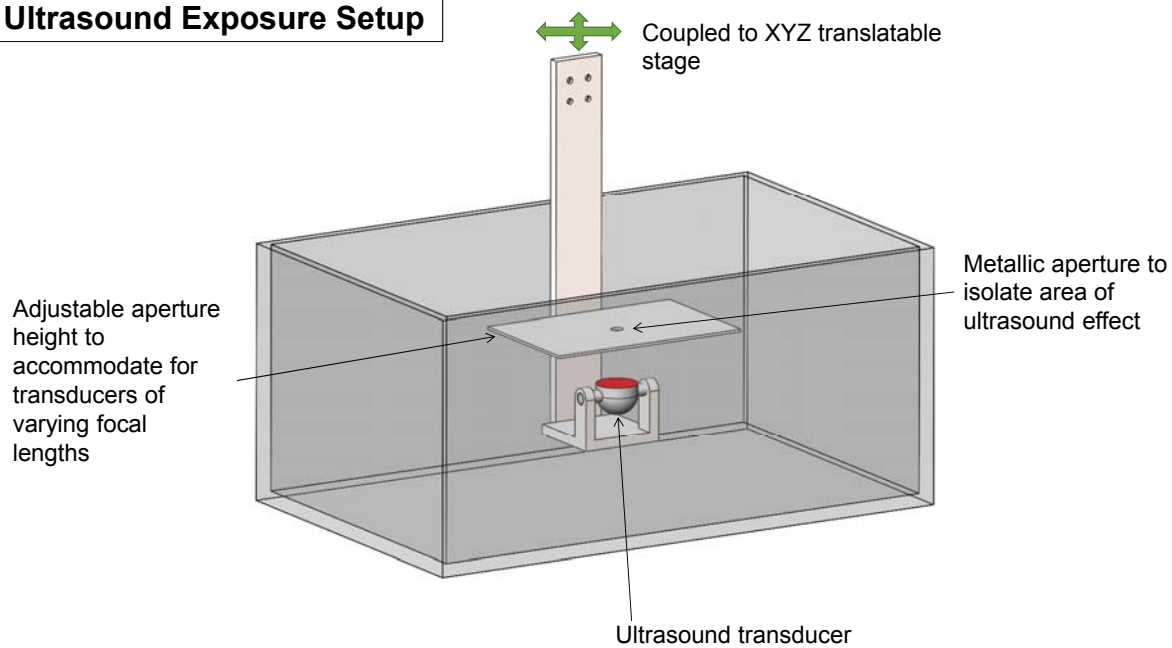
**Parameters:**

- 20 ms pulses of 300 kHz repeated every 500 ms for 20 minutes
- Pulse power intensity of 5 W/cm<sup>2</sup> and a time averaged intensity of 200 mW/cm<sup>2</sup>
- Mechanical Index = 0.25

**Plan:** Construct a setup to expose cells on a 24 well plate to multiple isolated ultrasound exposures to determine the effects of specific variations in ultrasound frequency.

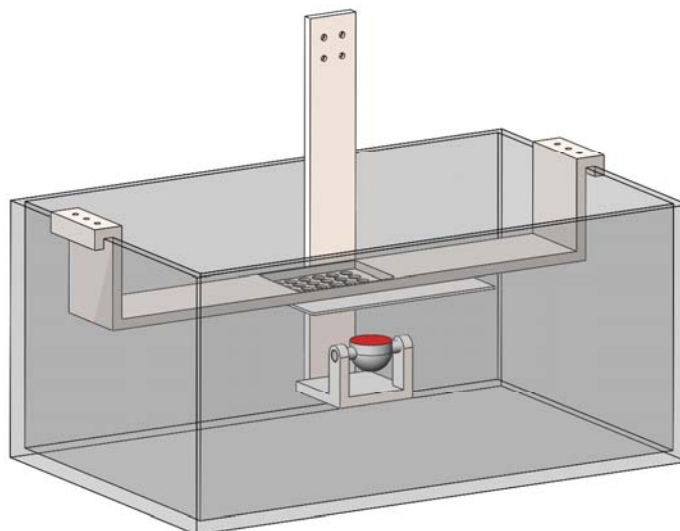


## Ultrasound Exposure Setup



**Ultrasound Exposure Setup**

Stationary stage to hold target cells at water level

**Ultrasound Exposure Setup**

24-well plate secured in position

